C.4 GENERAL PROJECT REQUIREMENTS

Figures C.4-1, Contractor Submittal Register, and C.4-2, Deliverables/Submittals Review Cycles, have been placed at the end of Section C.4 for ease in reading the following general project requirements.

C.4.1 FDF Responsibility Interfaces

As indicated throughout this contract, FDF has various responsibilities associated with the implementation of this project, some of which may affect the time it takes the Contractor to perform its activities. Table C.4-1 provides a listing of various tasks to be performed by FDF, which may impact the Contractor's activities. For each interface task identified, the table also provides information relative to the frequency that the interface can be expected, the approximate duration of the interface activity, the FDF organization specifically involved (if known), and the portion of the project wherein this interface can be expected. These interfaces are being identified so that the Contractor can factor them into the planning/sequencing of its activities.

Table C.4-1 FDF Responsibility Interfaces

Task	Freq	Approx Duration	Group	Pre- Mob	Pre-Oper	Oper	Shutdown & Dismantlement	Demob
Entry Inspec. Tools/Equip. (Section J.3.3)	Per Delivery	1.5 hr per accessible truck load	FDF Safety & Health		X	X	X	X
Contamination Area Exit Inspec. for Tools/ Equip./Vehicles (Section J.3.4)	Per Item	Refer to Section J.3.4	FDF Rad Safety		X	X	X	X
Controlled Area Exit Inspec. Tools/Equip./Vehicles (Section J.3.4)	Per Delivery	1.5 hr per accessible truck load	FDF Rad Safety		X	X	X	X
Permits (Sections J.3.3 & J.3.4)	Per Item	Per Item	FDF Safety		X	X	X	X
Quality Oversight (Section J.3.5)	Full-Time	Full-Time	FDF Quality Assurance		X	X	X	X
Safety & Health Oversight (Section J.3.3)	Full-Time	Full-Time	FDF Safety	X	X	X	X	X
OU2 Haul Road Crossing (Section C.4.3.5)	Per Crossing	See Section C.4.3.5	FDF Rad Safety	X	X			
Radiological Control (Section J.3.4)	Full-Time	Full-Time	FDF Rad Safety	X	X	X	X	X
Operations Support FAT&LC Labor & FDF Team Leader (Section C.8.4)	Per CBA	Per CBA	FDF			X	X	
Security	Full-Time	Full-Time	FDF Security	X	X	X	X	X

Table C.4-1 FDF Responsibility Interfaces (Cont.)

Task	Freq	Approx Duration	Group	Pre- Mob	Pre-Oper	Oper	Shutdown & Dismantlement	Demob
Environ Monitoring Testing	Full-Time	Full-Time	FDF Environmental Monitoring	X	X	X	X	X
Contractor Deliverable Review (Section C.4.7)	Per Deliver-able	Per Section C.4.7	FDF	X	X	X	X	X
Parcel Deliveries (Section C.4.4)	Per Delivery	Per Section C.4.4	FDF Receiving	X	X	X	X	X
Personnel Protective Equipment (Section J.3.3)	as needed	NA	FDF Safety		X	X	X	X
HEPA filter DOP Testing (Section C.5.1.1.3.1)	as needed		FDF			X	X	
Data Validation Package/ Shipment Containers (Section C.6.2.14.6)	as needed	45 days	FDF			X	X	

C.4.2 Facilities/Utilities

C.4.2.1 Utilities

The Contractor will be given access to electrical and water services at the work site. The quantities and characteristics of these utilities will be limited to those available. The Contractor shall extend the utilities to those locations where they are required in accordance with applicable codes and/or standards.

The Contractor shall furnish all bottled drinking water. Locations for drinking water shall be submitted to FDF in accordance with Section J.3.3.1.33.

FDF will provide and maintain a total of three telephone lines to the Contractor's office trailer during the performance of this contract as follows:

- Two telephone line for voice communications (one for the office trailer, one for the treatment facility's control room;
- One telephone line for data communications access to the FEMP local area network; and
- One telephone line for facsimile service.

The following utilities and specifications are to be provided by FDF at no expense to the Contractor:

- Electrical Power: The electrical service point is 480 Volts, three phase, 60 Hz power available to the Contractor at a point approximately 100 feet west of the new loop road and west of Silo 4. A 1,000 ampere circuit breaker (800 A, 660 kVA usable), adjustable lower, will be provided by FDF at the service point. The service point will be capable of

being locked open and will have electrical (kWh) and demand (kW peak) metering. The service point will be served by a 34.5 kV-480/277 Volt, 1,000 kVA padmount transformer with three secondary overcurrent service points. An under road conduit duct bank will be provided by FDF for use by the Contractor if desired. This duct bank will be buried 30 inches and will be 4-4 inch PVC conduits with concrete encasement. The Contractor will be responsible for conductors and remaining raceway or overhead service from the service point to their facilities;

The electrical service to the FEMP site is subject to periodic interruptions of a short duration. The Contractor shall plan and provide any necessary uninterruptible power supply to meet the needs of its proposed treatment facilities.

- Domestic (non-drinking) Water: Nominally 90 gpm at 40 - 60 psig (When using this water source for “process water” adequate, site approved, air gap backflow prevention shall be used to ensure integrity of the site Domestic Water system.) The domestic water supply is shared with the Silo 3 Project Contractor. Any use of more than 50% of the available domestic water must be coordinated with and approved by FDF;

- High Pressure Fire Water: One hydrant and one underground tie-in point. Tie-in point pressure nominally 100 psi at 1000 gpm; and

- Communications and Alarms: Three phone lines, previously described, will be provided to the Contractor’s office trailer, and one phone line will be provided to the treatment facility's control room. Alarm tie-in points are located at the Vitrification Pilot Plant, Building 94A.

If the Contractor requires any additional utility capacities in excess of that stated above, it shall negotiate those needs with FDF or provide its own.

The Contractor may wish to consider alternative/stand-by fuels for protection of equipment during shutdowns and/or continued operations during curtailments. Any alternative/stand-by fuel loading, storage, transfer and distribution systems must meet all applicable engineering design codes and standards, fire protection requirements (i.e., National Fire Protection Association [NFPA]), safety categorization, hazard analysis, regulatory, environmental, and emissions requirements. Refer to Section H.27 for additional FEMP notification requirements for fuel storage tanks.

C.4.2.1.1 Utility Tie-ins and Service Interruptions

The Contractor shall make arrangements with FDF a minimum of ten full working days in advance of its need for interruption of existing services and utilities. Outage requests shall be submitted for approval on a FDF "Outage Request Form" (Attachment J.4.54). All operations required for the tie-in, shutdown, and start-up, (i.e., operations of valves, breaker switches) will be performed by FDF. All work performed on energized systems shall be performed in

accordance with the site procedure OP-0004, "Lockout/Tagout" (Attachment J.4.76). The actual tie-in work shall be performed by the Contractor.

Upon completion of the work, any equipment disconnected or put out of service shall be reconnected and restored to the original operating condition unless otherwise required by the contract drawings and/or specifications. The Contractor shall plan all outages in advance so that downtime of utilities and/or facilities will be held to a minimum. Outages to disconnect utilities will be conducted on weekends.

All aboveground and underground utility tie-ins and disconnections will be inspected by FDF.

The Contractor shall be responsible for preparing drawing packages using Contractor design drawings and FDF provided underground utility drawings (latest revisions Attachment J.4.102) to support FDF in obtaining penetration permits under the FEMP penetration permitting program. Permits are obtained for specific scopes of work in clearly defined work areas. FDF will provide a competent person for 100 percent supervision during the penetration activities.

The Contractor shall provide complete red-line drawings to FDF immediately after the completion of activities associated with each penetration permit so that the information can be added to the FEMP Site Utilities drawings database.

C.4.2.1.2 Utility Usage

The Contractor shall use reasonable care to optimize use of all FDF utilities. FDF may monitor the Contractor's utility usage. The Contractor shall maintain a .90 or better power factor for its electrical account.

C.4.2.2 Government-Furnished Property

The following Government-furnished property shall be furnished by FDF to the Contractor for its exclusive use in the performance of the scope of work for on-site activities at the FEMP identified in this contract. The Contractor shall use this property for its intended use in accordance with General Provision A.18, in Section I of this contract.

C.4.2.2.1 Government-Furnished Equipment

FDF will make site Government-furnished equipment (GFE) available to the Contractor for the duration of the project. The Contractor shall install (if required) and maintain all GFE equipment used during the duration of the project. GFE includes a self-contained restroom trailer for use at the Contractor's facility, and a shower/restroom trailer (doublewide) currently located at the Vitrification Pilot Plant. The Contractor shall provide sanitary maintenance for the restroom trailer (i.e., routine pumping) during the performance of this contract. The Contractor will share use of the shower doublewide trailer and will not be responsible for maintenance of this facility. Upon completion of Silo 3 remedial activities, GFE equipment shall be decontaminated (as required) and returned in good working condition to FDF.

FDF will supply and maintain equipment required for off-loading empty containers, moving, and loading containers for treated waste within the Contractor's work area for operations only.

Other GFE by FDF is identified in Section J.3.4.1.2.

C.4.2.2.2 Roadway

FDF will provide the Contractor a roadway with controlled access to the Silo 3 work zone area (Figure C.1-5). FDF will maintain this roadway in a safe operating condition. Damage to the roadway by the Contractor (or agent of the Contractor) shall be repaired at the Contractor's expense. Radiological monitoring may be conducted during periods of parallel operation of the OU2 Haul Road. Reference Table C.4-1 for approximate impact durations, Section C.4.3.5, and Section J.3.4 for radiological requirements.

C.4.2.3 Contractor-Furnished Facilities

The Contractor shall furnish facilities and structures necessary to support its activities on the project. The Contractor is encouraged to utilize mobile and modular facilities and equipment to the extent practicable. Facilities and structures necessary to support its activities may include, but are not limited to, the following:

C.4.2.3.1 Portable Structures

The Contractor may bring portable structures which include temporary offices, control points, break facilities, and tool trailers on-site for use during the performance of the contract. These facilities must meet the requirements of Attachment J.4.53, Administrative Contractor Requirements Portable Structures, ACR-006.

C.4.2.4 Containers

The Contractor shall provide containers needed for the treated Silo 3 waste and secondary waste generated from treatment operations.

The procured containers shall meet the performance criteria specified in Table C.6-1, Performance Basis for IP-2 Type Container. FDF will provide the Contractor with an approved performance specification for the container. The Contractor shall provide a container that meets FDF specifications.

The Contractor shall demonstrate and certify through appropriate analytical testing that the treated Silo 3 wasteform is compatible with the manufacturer specifications of the selected container. Prior to use, the Contractor shall submit appropriate documentation to FDF for concurrence certifying that the wasteform and container are compatible.

C.4.2.5 Container Scale

The Contractor shall weigh each container and record its tare, gross, and net weights. The Contractor shall provide and maintain the necessary scale(s) to weigh all waste containers used during this contract.

C.4.2.6 Receipt and Movement of Waste Containers

Receipt and movement of waste containers shall be the responsibility of the Contractor. Delivery of the containers shall be in accordance with Section C.4.4. FDF will remove containers from the Contractor's interim staging area for loading and shipment to the disposal facility.

C.4.2.7 Monitoring Wells

The Contractor shall ensure continued vehicle access to area monitoring wells, for the protection and maintenance of wells in the project work area. Protection of wells shall extend to wells outside of the project work area boundary, which are impacted by project activities under the control of the Contractor. Any problems related to monitoring wells, such as accidental damage of a well or the need to relocate a well, shall be identified immediately to FDF.

C.4.3 Site Location, Access, Laydown Areas, and Limits of Project Area

C.4.3.1 Work Zone Area

FDF will provide the Contractor with a work zone area within which the Contractor shall conduct its remediation activities. This area is depicted in Figures C.1-3, C.1-4 and C.1-5. The work zone area will, in general, be level in contour. Attachment J.4.90 is a topographic survey plot of the existing area.

Two additional areas are identified in Figures C.1-3 and C.1-4, as buffer storage areas. The buffer storage areas will not be supported by any FDF infrastructure improvements. These areas may be used by the Contractor as laydown areas or for the storage of supplies or containerized treated waste. Any improvements to these areas shall be performed by the Contractor, at the Contractor's expense. All improvements and operations conducted in these areas shall be performed in accordance with the requirements of this SOW.

C.4.3.2 Fire Protection Systems

The Contractor shall design and provide appropriate fire protection to facilities, structures, and areas within the Silo 3 work zone area. The level of fire protection shall be integrated with the safety basis documentation and shall meet the requirements of the NFPA.

C.4.3.2.1 Fire Water System

The Contractor shall design and provide for a fire water system within its work zone areas.

The fire water system shall provide water to all building interior fire protection systems, fire water main, and fire hydrants. The system shall meet the requirements of NFPA 13 (NFPA 1996). The source of the fire water shall be the existing FEMP Fire Water System as indicated in Section C.4.2.1.

C.4.3.3.2 Halon

Halon shall not be used.

C.4.3.2.3 Fire Detection System

The Contractor shall provide and connect an emergency alarm system that complies with NFPA 72-1996 (National Fire Alarm Code) and which is compatible and interconnected to the existing FEMP Site Honeywell Delta 1000, Environmental and Fire and Safety Alarm System. The Contractor shall provide manual fire alarm stations, audible and visual fire alarm notification devices, smoke detection for control room(s), and monitoring of any automatic sprinkler flow alarms. Reference Figure C.5-1, Site Plan Interface Drawing, Existing Utilities, for the tie-in location to the sitewide alarm system. This tie-in will allow all emergency alarms to report to and terminate in the FEMP designated communications center.

The Contractor shall provide emergency voice and evacuation alarm devices compatible with the FEMP Honeywell Emergency Voice Alarm and Evacuation System. The master control for the system will be at the FEMP designated communications center. Reference Figure C.5-1, Site Plan Interface Drawing, Existing Utilities, for the tie-in location.

C.4.3.3 Fencing

In accordance with the approved safety basis, the Contractor shall install new fencing as required and maintain both new and existing fencing throughout the performance period of this contract, chain link or orange snow fencing, excluding perimeter fencing, around the Contractor's work area to control access (Section C.5.2.1.4).

The Contractor shall also install and maintain the minimum barrier yellow snow fence for radiological control areas, and orange snow fence at the perimeter of all utility excavations, trenches or other open excavations, as long as such areas are open.

C.4.3.4 Parking

Contractor personnel shall use existing parking as available in the parking lots identified in Figure C.1-5.

C.4.3.5 Operable Unit 2 Haul Road

This operation may affect unrestricted vehicle and pedestrian access to the Silo 3 Project.

During this period, the haul road shall be considered contaminated (reference Table C.4-1 for estimated delay impacts). The Contractor shall coordinate its activities so as not to impede use of the haul road.

The OU2 haul road shown on Figure C.1-5, Site Access to the Silo 3 Project, is forecasted to be in operation from approximately June 1998 to June 2001 with winter breaks possible each year. This schedule is subject to change.

Between the hours of 6:30 a.m. to 5:00 p.m., Monday through Thursday, FDF Radiological Control will halt haul road traffic, clean the haul road walkway as necessary, and monitor the pedestrian walkway to permit uncontaminated access to the work area for Contractor and FDF personnel every hour from 10 minutes to the hour to the hour (e.g., access to the Silo 3 work area will be available from 6:50 a.m. - 7:00 a.m., 7:50 a.m. - 8:00 a.m.). The walkway will be surveyed after 5:00 p.m., Monday and Thursday, and free access to the work area will be permitted between 5:00 p.m. and 6:30 a.m. the following day, Monday through Thursday, and from 5:00 p.m. on Thursday until 6:30 a.m. the following Monday.

C.4.3.6 Adjacent Projects

In parallel to the performance period of this contract, there will be project activities occurring adjacent to the North, East, and South of the Silo 3 work zone area under separate contracts. FDF will be responsible for integration and coordination of work activities between the adjacent projects occurring near the Silo 3 work zone area. The Contractor shall participate in work coordination meetings and coordinate work tasks accordingly with the other contractors.

The following is a list of known projects expected to be in progress during the performance of this contract:

- Waste Pits Remedial Action Project - This project bounds the Silo 3 Project work zone on the North and East. This project involves the remediation of the waste pits comprising Operable Unit 1.

- Silos 1 and 2 Accelerated Waste Retrieval Project - This project will be performed to the South of Silo 3. It will involve the removal and transfer of the Silos 1 and 2 material to a transfer tank area south of Silos 1 and 2. An overhead pipe rack and transfer lines will be constructed through the Silo 3 work zone to support non-radiological waste transfer mock-up tests at Silo 4.

- Mock-up Testing at Silo 4 - Technical demonstrations will be conducted in and around Silo 4 involving various mock-up tests. This area is immediately adjacent to the North of the Silo 3 Project work zone.

The development of the Silo 3 Project safety basis documentation must be coordinated with these projects. Unreviewed safety questions may arise between the projects whose resolution must be integrated into the Contractor's approved safety basis for Silo 3.

The Contractor shall coordinate field activities between these projects to ensure that all parties' interests are served. The frequency of work coordination meetings will be based upon the activities being performed. These meetings will be held daily if necessary.

The Contractor shall be required to share access to the roadways surrounding the Silo 3 work zone area with other contractors.

C.4.4 Delivery of Contractor-Furnished Material and Equipment

C.4.4.1 Location

All deliveries to the Contractor shall be received by the Contractor at its receiving area in the Silo 3 work zone area. The Contractor shall install signs along the FEMP access roads to direct delivery trucks to this area. The Contractor shall provide appropriate shipping and receiving, warehousing, and inventory control measures to support its activities.

C.4.4.2 Markings

All deliveries to the Contractor shall be marked with the Contractor's name and FDF contract number.

C.4.4.3 Parcels

Parcels (e.g., FedEx, United Parcel Service) are required to go through the FDF Receiving and Incoming Materials Inspection Area (RIMIA). RIMIA hours are from 7:00 a.m. to 3:00 p.m., Monday through Friday, except for FDF holidays.

Upon arrival of these deliveries for the Contractor, FDF will notify the Contractor by radio or phone.

C.4.4.4 Address

The FDF shipping address is:

Fluor Daniel Fernald, Inc. Attn: TBD
7400 Willey Road
Hamilton, OH 45013-9402

C.4.4.5 After-hours Deliveries

The Contractor shall coordinate with FDF security and FDF radiological control all after- hours deliveries to the Contractor's receiving area.

C.4.5 Work Hours

C.4.5.1 Construction

Normal FDF construction work hours are from 6:30 a.m. to 5:00 p.m., Monday through Thursday. The Contractor must request written authorization from the FDF Contract Administrator at least four working days in advance and obtain approval to work outside of these hours.

Contractor requests for FDF coverage (e.g., construction coordination, radiological control support, health and safety support, etc.) to support a makeup day due to weather shall be presented to FDF in writing no later than 9:00 a.m. on Wednesday in the week in which the work is to be performed.

C.4.5.2 Operations and Maintenance

The Contractor shall provide to FDF, as part of its Labor Relations/Work Force Utilization Plan, a detailed description of the number and type of shifts to be worked during the operational phase of the project in accordance with Section C.8.3. These shifts will be reviewed with FAT&LC for their concurrence prior to implementation. Refer to Attachment J.4.7, the CBA between FDF and FAT&LC, Article 15, for specific work shift requirements.

C.4.5.3 Overtime

The Contractor shall plan for the limitation on overtime as defined in Sections H.11, Holidays, and H.26, Limitations on Overtime, respectively, when preparing work and shift schedules.

C.4.5.4 Scheduled Shutdowns

The Contractor shall plan for and schedule a short-term shutdown (Section C.6.2.15.2) having a duration of ten work days, for any waste retrieval, pretreatment, and treatment operations at the FEMP for Silo 3 material which occur 5 working days prior to and 5 working days immediately following the FDF observed Christmas Holidays (Section H.11).

Restart under DOE Order 425.1 (Sections C.5.5 and C.6.2.15.2) may not be required for this shutdown.

C.4.6 Scheduling

C.4.6.1 Project Schedule Bar Chart

Within ten days from the NTP, the Contractor shall submit a detailed bar chart (Gantt) proposed schedule for the entire project. The schedule shall highlight the critical path logic throughout the duration of the project. This schedule shall be negotiated and in place prior to

the start of pre-mobilization by the Contractor. The schedule shall illustrate the project's activities, interdependencies for all activities, and identify all submittals and required review cycles for the deliverables as required in Figure C.4-2, Deliverables/Submittals Review Cycle.

The schedule shall be clearly traceable to the scope of work by organizing the items in Section C.3.2 into separate sections. All Line Items identified in Section B shall be shown as hammock activities on the schedule. Project activities will roll up into these hammocks to demonstrate how progress against each Line Item is accomplished. Each area of the schedule shall be provided in sufficient detail to depict the Contractor's approach to meeting all requirements. Activities shall be detailed to a level where the duration of a single activity does not exceed four weeks. Once this schedule is agreed upon by all parties, it will serve as the project baseline for the project. Weekly meetings may be held to determine the status of the ongoing items. The schedule shall be updated and provided to FDF on a weekly basis.

C.4.6.2 Project Schedule Time-Scale Logic Diagram

A time-scale logic diagram shall be provided by the Contractor to identify the critical path and show all predecessor/successor relationships for the project.

C.4.6.3 Primavera® Software

The Contractor is required to provide and use Primavera's P3® software (Primavera Windows® version 2.0 throughout the contract upgraded, to the latest version as required) to prepare the required project schedules. A 3.5" diskette, double sided, high density (1.44 MB), DOS formatted, containing the updated project schedule shall be submitted to FDF upon request.

C.4.6.4 Milestones

In the project schedule required under Section C.4.6.1, the Contractor shall include all major milestones for performance, regulatory compliance, design, construction, start-up, and operations.

C.4.6.5 Special Requirements

Procurement and fabrication activities shall be incorporated into the schedule network and statused and progressed as part of the weekly updating requirements.

C.4.7 Submittals

C.4.7.1 General Requirements

The Contractor shall develop, submit to FDF, obtain the appropriate reviews and/or approvals, issue, and implement the documents specified herein and identified in Figures C.4-1 and C.4-2, Submittal Register, in accordance with the requirements contained in this section. All submittals shall be prepared and submitted in accordance with Attachment J.4.48.

C.4.7.2 Reviews by FDF, DOE, and EPAs

FDF reserves the right to review and require correction of any deliverable submitted by the Contractor that does not comply with the contract documents, specifications, standards, and dimensions furnished by FDF. However, failure to do so shall not constitute a waiver of any requirements of the contract between FDF and the Contractor. Figure C.4-2 provides definitions of the various deliverable types, which are essentially reflective of the level of review, the organizations performing the review, and the need for formal approval of the deliverables. The review process/cycle for all Contractor deliverables to FDF (and DOE, OEPA, and U.S. EPA, as required) is discussed in the following paragraphs and delineated in Figure C.4-2.

Submittals to FDF\DOE

- The Contractor shall allow the appropriate number of working days for FDF review of Contractor deliverables, depending on the type of document (Figure C.4-2);

- FDF will submit any review comments to the Contractor in writing at the end of its review period;

- The Contractor shall provide responses and resolutions of comments within five business days upon receipt, so that any disagreement and misunderstanding can be resolved prior to the final issue. The Contractor may request a meeting or teleconference with FDF to facilitate comment resolution. In the event the Contractor determines that it cannot respond within five business days, the Contractor must notify FDF immediately upon making the determination and shall request a schedule extension from FDF to provide comment responses. The Contractor must also submit a schedule recovery plan if the project's critical path is affected. The actual incorporation of the comment resolution need not be completed until the next issue, since the resolution would have been documented in the response agreed upon;

- As appropriate, and agreed to in writing by FDF, change pages may be submitted by the Contractor, in lieu of a complete revision of the deliverable;

- If any review comments require clarification and/or amplification, the Contractor shall notify FDF by one of the following options: 1) by writing within five calendar days of receipt of the comments or, 2) by telephone, within three calendar days of receipt of the comments, with a record of the telephone conversation submitted to FDF within five calendar days of the telephone contact;

- To assist reviewers, a copy of the annotated comments shall accompany the subsequent submittal of the reviewed document; and

- Documents requiring DOE review and approval will be provided to DOE by FDF. DOE/FDF document review will be concurrent. DOE/FDF document comments will be

submitted to the Contractor.

Submittals to Agencies

- Documents requiring U.S. EPA and OEPA review and approval will be provided to the EPA's by DOE upon completion of FDF/DOE review and approval of the document package;

- The Contractor shall allow 65 calendar days for concurrent reviews by U.S. EPA/OEPA;

- Based upon the review of these documents, U.S. EPA/OEPA will provide any written comments to FDF/DOE for resolution;

- FDF/DOE, in turn, will assess the EPA comments, and determine who should answer these comments. Any response to comments that FDF/DOE determine should be the responsibility of the Contractor shall be provided to the Contractor within five calendar days of receipt from the EPAs;

- If any review comments require clarification and/or amplification, the Contractor shall notify FDF by one of the following options: 1) in writing within five calendar days of receipt of the comments, or 2) by telephone within three calendar days of receipt of the comments, with a record of the telephone conversation submitted to FDF within five calendar days of the telephone contact;

- The Contractor shall in turn provide FDF with a response to comments document (both written and electronic copies), addressing those comments to which it was assigned, within 15 calendar days of receipt of comments from FDF. This response to comments document shall be in a standard format dictated by FDF and provide for each comment: a restatement of the comment, a proposed response to the comment, and an identification of the action to be taken on the document to reflect the proposed response. DOE will develop a combined response to comments document, including responses to all comments received from the EPAs, and submit this document to the EPAs for review and approval;

- It may or may not be necessary to resubmit a revised document along with the comment response document. As appropriate, and agreed to in writing by the EPAs/DOE/FDF, change pages may be submitted in lieu of a complete revision of the deliverable;

- The EPAs will have 30 calendar days from receipt of the comment response document to review and approve the document, or provide additional comments; and

- Upon U.S. EPA/OEPA approval and FDF notification to proceed, the Contractor may begin implementation of the activities identified in the approved document. The Contractor shall not begin activities identified until U.S. EPA/OEPA approval and FDF notification to proceed has been received.

Unless specifically agreed to and/or established ahead of time by FDF/DOE, the Contractor is specifically prohibited from initiating contacts with the U.S. EPA/OEPA with respect to their review of any of the identified deliverables (or any other aspect of this project once this contract is in place), and the subsequent comments generated by that review. If contacted directly by U.S. EPA/OEPA regarding any activities related to this project, the Contractor shall notify FDF and postpone contact until the necessity for participation by FDF/DOE can be assessed.

C.4.7.3 Submittal Register

Within ten working days following award of this contract, the Contractor shall submit a submittal register to FDF, reflecting the submittal of the documents identified in Figure C.4-1. The register shall indicate the type of submittal, contract or specification requirement reference, and the Contractor submittal dates. The Contractor is responsible for any submittals identified in this RFP, including any inadvertently omitted from Figures C.4-1 and C.4-2. Items listed on the register shall be such that all shop drawings or data required under each item will normally be submitted under one transmittal. The Contractor shall submit updates of this register, as necessary, to reflect significant schedule changes.

C.4.7.4 Electronic Submittals

In addition to specified hardcopies, the Contractor shall submit electronic copies of all drafting and design files to FDF on a 3.5" diskette, double sided, high density (1.44 MB) or a writable compact disk. The Contractor's computer aided drafting and design (CADD) system files and all subcontractor's CADD system files shall be compatible with Microstation 32® or Microstation 95® software applications.

C.4.8 Reports and Meetings

C.4.8.1 Weekly Activity Reports

A written weekly activity report shall be provided to the FDF Technical Representative Monday morning of each following work week and shall contain the following information:

- Updated project schedule;
- Overall project status including a narrative by the Contractor Project Manager including a Summary of Activities completed during the reporting week;
- Major accomplishments, including completed milestones;
- Problem areas affecting project baselines (cost, schedule, and technical) and proposed or recommended resolutions;
- Agreements and commitments for problem resolution;

- Major activities planned for the next weekly reporting period; and
- Coordination issues with FDF organizations or other projects.

C.4.8.2 Weekly Progress Meetings

Meetings shall be held weekly between FDF and the Contractor to review progress. During these meetings, the Contractor shall present the project task status, identify existing or anticipated problem areas (including impacts), and report on progress toward resolution of problems. The Contractor shall issue the meeting agenda in advance of the meeting and prepare the meeting minutes. Minutes shall emphasize agreements, commitments, and planned activities. Meeting minutes are subject to revision and addendum and subject to approval by FDF. All meeting minutes shall be issued by the close of business the next day following the meeting. Although it is intended that these be working meetings, with the number of persons involved and the duration of the meetings being held to a minimum, it is essential that all key personnel attend. The meeting location will be designated by FDF. During the pre-mobilization phase, the Contractor may be requested to participate in these meetings via teleconference.

C.4.8.3 Special/Topical Meetings

Special meetings may be called by FDF or the Contractor when necessary to discuss proposals, coordination meetings with adjacent projects, or problems that need attention earlier than the next progress meeting. The location or identity of attendees for these meetings will be determined on a meeting-by-meeting basis. The Contractor shall publish meeting minutes. Meeting minutes are subject to review and revision if required, and addendum and approval by FDF. All meeting minutes shall be issued by the close of business the next day following the meeting.

Figure C.4-1 Contractor Submittal Register

COMPLETION OF THE CONTRACTOR SUBMITTAL REGISTER

The following Contractor Submittal Register includes the FDF submittal number, the submittal type, the document family, document title, submittal due date, and contract reference.

To allow FDF to track Contractor submittals, the Contractor shall assign its own unique number for each document and enter that number on the appropriate line of the column titled "Document No. and Rev."

(END OF PAGE)

Contract No. F98P132339

Contract Title: Silo 3 Project

Contractor _____

Submittal Due Dates

A= Within 10 days after award
B= Within 10 days from notice to proceed
C= Within 30 days from notice to proceed
D= Within 1 day after completion of activity
E= At a minimum, 60 days prior to start of the activity
F= At a maximum, 30 days after sampling
G= Prior to authorization for mobilization
H= Prior to request for pre-operational assessment
I= Prior to authorization for operations
J= Prior to authorization for facilities shutdown
K= Prior to authorization for dismantlement
L= Prior to authorization for demobilization
M= As indicated in the approved schedule
N= Initial submittal to establish baseline, subsequent submittals on a weekly basis.

Figure C.4-1, Contractor Submittal Register

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-C-1	INF	Engineering	Submittal Register		A	C.4.7.3
40420-TBD-H-1	INF	Procurement	Performance Bonds/Payment Bond		A	H.51.1 and H. 51.2
40420-TBD-I-1	INF	Procurement	Insurance		A	I, General Provisions A.44
40420-TBD-H-2	INF	Procurement	Standard Form SF1413, "Statement and Acknowledgment"		A	H.43.2.2
40420-TBD-H-3	INF	Procurement	PLA Letter of Assent		A	H.30.2
40420-TBD-H-4	INF	Procurement	List of Contractors		A	H.10.4
40420-TBD-J-1	INF	Training	Training Certificates		A	J.3.3.3.1
40420-TBD-I-2	INF	Engineering	Conflict of Interest Laboratory Utilization Plan		A	I, General Provision A.36
40420-TBD-H-5	CFC	Engineering	Resumes of Key Personnel (if they differ from proposal submittal)		A	H.16, C.1.2.2
40420-TBD-C-2	CFC	Engineering	Baseline Schedule		B	C.4.6
40420-TBD-J-2	INF	Health & Safety	Safety and Health Program		B	J.3.3.1
40420-TBD-J-3	CFC	Health & Safety	S&H Representative Qualifications		B	J.3.3.2.1.1
40420-TBD-J-4	INF	Health & Safety	Competent Person List		B	J.3.3.2.1.2
40420-TBD-J-5	CFC	Health & Safety	Safety Basis Documentation Implementation Plan (Final)		C	J.3.2.3.2.1 & Table J.3.2-2
40420-TBD-C-3	CFC	Engineering	Project Management Plan		C	C.5.1.6.1
40420-TBD-C-4	CFC	Engineering	Engineering Management Plan		C	C.5.1.6.2

Contract No. F98P132339

Contract Title: Silo 3 Project

Contractor _____

Submittal Due Dates

A= Within 10 days after award
B= Within 10 days from notice to proceed
C= Within 30 days from notice to proceed
D= Within 1 day after completion of activity
E= At a minimum, 60 days prior to start of the activity
F= At a maximum, 30 days after sampling
G= Prior to authorization for mobilization
H= Prior to request for pre-operational assessment
I= Prior to authorization for operations
J= Prior to authorization for facilities shutdown
K= Prior to authorization for dismantlement
L= Prior to authorization for demobilization
M= As indicated in the approved schedule
N= Initial submittal to establish baseline, subsequent submittals on a weekly basis.

Figure C.4-1, Contractor Submittal Register

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-C-5	CFC	Engineering	Configuration Management Plan		C	C.5.1.6.3
40420-TBD-C-6	CFC	Engineering	Procurement Management Plan		C	C.5.1.6.5
40420-TBD-J-6	CFC	Quality	Quality Assurance Plan		C	J.3.5.2
40420-TBD-C-6	CFC	Quality	Records Management and Document Control Plan		C	C.5.1.6.4, J.3.5.7
40420-TBD-J-7	CFC	Health & Safety	Contractor Project-Specific Health and Safety Plan		C	J.3.3.1.2
40420-TBD-J-8	CFC	Health & Safety	• Pre-operational Phase Activities, Rev. 0		G	J.3.3.1.2
40420-TBD-J-9	CFC	Health & Safety	• Operational Phase Activities, Rev. 1		H	J.3.3.1.2
40420-TBD-J-10	CFC	Health & Safety	• Facility Shutdown and Dismantlement, Rev. 2		J	J.3.3.1.2
40420-TBD-C-7	CFC	Construction	CAT Plan		E	C.5.3.2
40420-TBD-J-11	INF	Health & Safety	Access Request and Profile Forms (General Access)		G	J.3.3.4.1
40420-TBD-J-12	INF	Health & Safety	Medical Monitoring		G	J.3.3.1.9
40420-TBD-J-13	CFC	Health & Safety	Accident Prevention Plan		G	J.3.3
40420-TBD-J-14	CFC	Health & Safety	Respirator Program		G	J.3.3.2.1.5
40420-TBD-J-15	CFC	Health & Safety	Heat and Cold Stress Program		G	J.3.3.2.1.7
40420-TBD-J-16	CFC	Health & Safety	Confined Space Program		G	J.3.3.2.1.8
40420-TBD-J-17	CFC	Health & Safety	Carcinogen Control Plan		G	J.3.3.2.1.4

Contract No. F98P132339

Contract Title: Silo 3 Project

Contractor _____

Submittal Due Dates

A= Within 10 days after award
B= Within 10 days from notice to proceed
C= Within 30 days from notice to proceed
D= Within 1 day after completion of activity
E= At a minimum, 60 days prior to start of the activity
F= At a maximum, 30 days after sampling
G= Prior to authorization for mobilization
H= Prior to request for pre-operational assessment
I= Prior to authorization for operations
J= Prior to authorization for facilities shutdown
K= Prior to authorization for dismantlement
L= Prior to authorization for demobilization
M= As indicated in the approved schedule
N= Initial submittal to establish baseline, subsequent submittals on a weekly basis.

Figure C.4-1, Contractor Submittal Register

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-J-18	CFC	Health & Safety	Fall Protection Plan		G	J.3.3.2.1.15
40420-TBD-J-19	CFC	Health & Safety	Hazardous Chemical List and MSDS Documentation		G	J.3.3.2.1.3
40420-TBD-J-20	INF	Health & Safety	Personnel Monitoring Analysis Results		G,N	J.3.3.2.1.6
40420-TBD-J-21	INF	Health & Safety	General Area Monitoring Analysis Results		G,N	J.3.3.2.1.6
40420-TBD-J-22	CFC	Health & Safety	Radiation Source Accountability and Control Form		G	J.3.3.1.5
40420-TBD-J-23	CFC	Health & Safety	Trenching and Excavating Inspection Forms		G	J.3.3.1.30
40420-TBD-J-24	CFC	Health & Safety	Hoisting Log		G	J.3.3.1.23.8
40420-TBD-C-8	CFC	Construction	Construction Safe Work Plan		G	C.5.3.3.1
40420-TBD-H-6	CFC	Construction	List of Tools, Equipment, Vehicles		G	H.60.1
40420-TBD-C-9	CFC	Construction	List of Temporary Facilities		G	C.5.3.1.5
40420-TBD-J-25	CFC	Quality	Schedule of Inspection and Tests		G	J.3.5.5
40420-TBD-J-26	CFC	Health & Safety	Health Physics Plan		G	J.3.4.2.2
40420-TBD-J-27	CFC	Health & Safety	Preliminary Hazard Analysis (30%, 50%, & Final)		G	J.3.2.3.2.2 & Table J.3.2-2
40420-TBD-J-28	CFC	Health & Safety	Hazard Category Calculations (30%, 50%, & Final)		G	J.3.2.3.2.3 & Table J.3.2-2
40420-TBD-J-29	CFC	Health & Safety	Safety Assessment (30%, 50%, & Final)		G	J.3.2.3.2.4 & Table J.3.2-2
40420-TBD-J-30	CFC	Engineering	Hazard Analysis		G,H	J.3.2.3 & Table J.3.2-2

Contract No. F98P132339

Contract Title: Silo 3 Project

Contractor _____

Submittal Due Dates

A= Within 10 days after award
B= Within 10 days from notice to proceed
C= Within 30 days from notice to proceed
D= Within 1 day after completion of activity
E= At a minimum, 60 days prior to start of the activity
F= At a maximum, 30 days after sampling
G= Prior to authorization for mobilization
H= Prior to request for pre-operational assessment
I= Prior to authorization for operations
J= Prior to authorization for facilities shutdown
K= Prior to authorization for dismantlement
L= Prior to authorization for demobilization
M= As indicated in the approved schedule
N= Initial submittal to establish baseline, subsequent submittals on a weekly basis.

Figure C.4-1, Contractor Submittal Register

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-J-31	CFC	Health & Safety	Safety Basis Document (30%, 50%, & Final)		G,M	J.3.2.3.2.5 & Table J.3.2-2
40420-TBD-C-10	CFC	Engineering	Site Preparation Package (50%)		G,M	C.5.2.2.1
40420-TBD-C-11	CFC	Engineering	Site Preparation Package (100%)		G,M	C.5.2.2.1
40420-TBD-C-12	CFC	Engineering	Pre-Operational Environmental Control Plan		G,M	C.5.2.2
40420-TBD-C-13	CFC	Engineering	Functional Requirements Document		G,M	C.5.1.2.1
40420-TBD-C-14	CFC	Engineering	Design Criteria Package		G,M	C.5.1.2.2
40420-TBD-C-15	CFC	Engineering	Conceptual Design Package		G,M	C.5.1.2.3
40420-TBD-C-16	CFC	Engineering	Preliminary Design Package		G,M	C.5.1.2.4
40420-TBD-C-17	CFC	Engineering	Final Design Report		G,M	C.5.1.2.5
40420-TBD-C-18	CFC	Engineering	Failure Modes and Effects Analysis		G,M	C.5.1.3.1
40420-TBD-C-19	CFC	Engineering	Energy Conservation Report		G,M	C.5.1.3.2
40420-TBD-C-20	CFC	Engineering	Environmental Investigations/Engineering Study Workplans		G,M	C.5.1.3.3
40420-TBD-C-21	CFC	Engineering	Point Source Air Emission Data		G,M	C.5.1.3.4
40420-TBD-C-22	CFC	Engineering	Labor Relations/Work Force Utilization Plan		G,M	C.8.2
40420-TBD-C-23	CFC	Engineering	Welding Program		G,M	C.5.3.1.1
40420-TBD-C-24	CFC	Engineering	Operating Procedures		H	C.5.4.1.1

Contract No. F98P132339

Contract Title: Silo 3 Project

Contractor _____

Submittal Due Dates

A= Within 10 days after award
B= Within 10 days from notice to proceed
C= Within 30 days from notice to proceed
D= Within 1 day after completion of activity
E= At a minimum, 60 days prior to start of the activity
F= At a maximum, 30 days after sampling
G= Prior to authorization for mobilization
H= Prior to request for pre-operational assessment
I= Prior to authorization for operations
J= Prior to authorization for facilities shutdown
K= Prior to authorization for dismantlement
L= Prior to authorization for demobilization
M= As indicated in the approved schedule
N= Initial submittal to establish baseline, subsequent submittals on a weekly basis.

Figure C.4-1, Contractor Submittal Register

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-C-25	CFC	Engineering	Maintenance Plan		H	C.6.2.12
40420-TBD-H-7	CFC	Quality	Written Certification of Compliance with Fastener Quality Act		H	H.28.1
40420-TBD-C-26	CFC	Engineering	Waste Container Certification		H	C.4.2.4, C.6.2.10.1.1
40420-TBD-C-27	CFC	Engineering	Design Closeout Report		H,M	C.5.1.2.6
40420-TBD-C-28	CFC	Engineering	SOT Plan - Procedures		H,M	C.5.4.1.3
40420-TBD-C-29	CFC	Training	Lesson Plans		H,M	C.5.4.1.2.1.2
40420-TBD-C-30	CFC	Engineering	Request to Perform Pre-operational Assessment		H,M	C.5.5.2
40420-TBD-C-31	CFC	Engineering	Request to Operate		I	C.3.2.2.1
40420-TBD-C-32	CFC	Engineering	Remedial Design Package		I,M	C.5.1.4
40420-TBD-C-33	CFC	Engineering	Request to Begin Facility Shutdown and Dismantlement		J	C.3.2.4
40420-TBD-C-34	CFC	Engineering	Facilities Shutdown Work Plan		J	C.7.3.1
40420-TBD-C-35	CFC	Engineering	Facilities Dismantlement Work Plan		K	C.7.3.2
40420-TBD-C-36	CFC	Engineering	Request to Begin Demobilization		L	C.3.2.5.1
40420-TBD-H-8	CFC	Engineering	Project Close-Out Checklist or Contractor Termination Checklist		L	H.22
GENERAL SUBMITTALS						
40420-TBD-J-32	INF	Health & Safety	Contractor Monthly Manpower Report		Monthly	J.3.3.1.6

Contract No. F98P132339

Contract Title: Silo 3 Project

Contractor _____

Submittal Due Dates

A= Within 10 days after award
B= Within 10 days from notice to proceed
C= Within 30 days from notice to proceed
D= Within 1 day after completion of activity
E= At a minimum, 60 days prior to start of the activity
F= At a maximum, 30 days after sampling
G= Prior to authorization for mobilization
H= Prior to request for pre-operational assessment
I= Prior to authorization for operations
J= Prior to authorization for facilities shutdown
K= Prior to authorization for dismantlement
L= Prior to authorization for demobilization
M= As indicated in the approved schedule
N= Initial submittal to establish baseline, subsequent submittals on a weekly basis.

Figure C.4-1, Contractor Submittal Register

Submittal No.	Submittal Type	Document Family	Document Title	Document No. & Rev.	Submittal Due Date	Contract Reference
40420-TBD-G-1	INF	Procurement	Invoice		Monthly	G.2
40420-TBD-H-9	INF	Procurement	Contractor Termination Checklist		At Termination	H.22.1
40420-TBD-H-10	INF	Procurement	Payroll Records (During Construction Only)		Weekly	H.49
40420-TBD-C-37	CFC	Engineering	Weekly Activity Reports		Weekly	C.4.8.1
40420-TBD-C-38	INF	Engineering	Weekly Schedule Update		Weekly	C.4.6.1
40420-TBD-C-39	INF	Engineering	Weekly Status Update		Weekly	C.4.8.2
40420-TBD-C-40	CFC	Engineering	Analytical Data Results		F	C.6.2.14.6, C.6.2.10 and C.6.3.5
40420-TBD-C-41	CFC	Engineering	Meeting Minutes		D	C.4.8.2
40420-TBD-C-42	INF	Engineering	Operations Logs and Records		Upon request, L	C.6.3.4
40420-TBD-C-43	INF	Engineering	Environmental Monitoring Data		Upon request, L	C.6.3.5
40420-TBD-J-33	INF	Health & Safety	Urinalysis Sampling Form		Monthly	J.3.3.1.9.2
40420-TBD-J-34	INF	Health & Safety	Bioassay Form		Bi-Monthly	J.3.3.1.9.2
40420-TBD-J-35	REC	Health & Safety	OSHA 24-Hour Field Experience Form		D	J.3.3.3.1
40420-TBD-C-44	INF	Engineering	Weekly Silo 3 Inspection Form		Weekly	C.6.2.1.1

Contract No. F98P132339

Contract Title: Silo 3 Project

Contractor _____

Submittal Due Dates

A= Within 10 days after award
B= Within 10 days from notice to proceed
C= Within 30 days from notice to proceed
D= Within 1 day after completion of activity
E= At a minimum, 60 days prior to start of the activity
F= At a maximum, 30 days after sampling
G= Prior to authorization for mobilization
H= Prior to request for pre-operational assessment
I= Prior to authorization for operations
J= Prior to authorization for facilities shutdown
K= Prior to authorization for dismantlement
L= Prior to authorization for demobilization
M= As indicated in the approved schedule
N= Initial submittal to establish baseline, subsequent submittals on a weekly basis.

FIGURE C.4-2 DELIVERABLES/SUBMITTALS REVIEW CYCLES

[Durations are in Working Days (wds) or Calendar Days (cds), as Noted]

Document Title	Document Family	Document Type*	Approval Before:	FDF/ DOE Review Draft	Contr. Finalize Draft	FDF/ DOE Review Final Draft & Accept	EPA Review Draft	FDF/DOE Review EPA Comments & Provide to Contr.	Contr. Develop RTC & Draft Final	FDF/ DOE Complete RTC & Submits with Draft Final to EPAs	EPA Review & Approve Draft Final	Contr. Finalize & Submit	FDF/ DOE Submit Final to EPAs
Submittal Register	ENG	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
Performance Bonds/Payment Bonds	PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
Insurance	PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
Standard Form SF 1413	PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
PLA Letter of Assessment	PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
List of Contractors	PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
Training Certificates	PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
Conflict of Interest - Laboratory Utilization Plan	PROC	INF	NTP	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
Resumes of Key Personnel	PROC	CFC	NTP	10 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
Safety Basis Documentation Implementation Plan	H/S	CFC	A to M	20 wd	10 wd	20 wd	NA	NA	NA	NA	NA	NA	NA
Baseline Schedule	ENG	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Project Management Plan	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Eng. Management Plan	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Configuration Management Plan	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Procurement Management Plan	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA

FIGURE C.4-2 DELIVERABLES/SUBMITTALS REVIEW CYCLES

[Durations are in Working Days (wds) or Calendar Days (cds), as Noted]

Document Title	Document Family	Document Type*	Approval Before:	FDF/ DOE Review Draft	Contr. Finalize Draft	FDF/ DOE Review Final Draft & Accept	EPA Review Draft	FDF/DOE Review EPA Comments & Provide to Contr.	Contr. Develop RTC & Draft Final	FDF/ DOE Complete RTC & Submits with Draft Final to EPAs	EPA Review & Approve Draft Final	Contr. Finalize & Submit	FDF/ DOE Submit Final to EPAs
Quality Assurance Plan	QUAL	CFC	Note 1	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Records Management and Document Control Plan	QUAL	CFC	Note 1	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Access Request & Profile Forms	H/S	INF	A to M	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
Medical Monitoring	H/S	INF	A to M	5 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
Safety and Health Program	H/S	INF	A to M	10 wd	5 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
S&H Rep Qualifications	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Competent Person List	H/S	INF	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Accident Prevention Plan	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Respirator Program	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Heat and Cold Stress Program	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Confined Space Program	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Carcinogen Control Plan	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Fall Protection Plan	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Hazardous Chemical List & MSDS Documentation	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Contractor Manpower Report	H/S	INF	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Personnel Monitoring Analysis Results	H/S	INF	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA

FIGURE C.4-2 DELIVERABLES/SUBMITTALS REVIEW CYCLES

[Durations are in Working Days (wds) or Calendar Days (cds), as Noted]

Document Title	Document Family	Document Type*	Approval Before:	FDF/ DOE Review Draft	Contr. Finalize Draft	FDF/ DOE Review Final Draft & Accept	EPA Review Draft	FDF/DOE Review EPA Comments & Provide to Contr.	Contr. Develop RTC & Draft Final	FDF/ DOE Complete RTC & Submits with Draft Final to EPAs	EPA Review & Approve Draft Final	Contr. Finalize & Submit	FDF/ DOE Submit Final to EPAs
General Area Monitoring Analysis Results	H/S	INF	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Radiation Source Accountability and Control Form	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Contractor Project-Specific Health and Safety Plan	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
• Preoperational Activities, Rev. 0	H/S	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
• Operational Activities, Rev. 1	H/S	CFC	A to O	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
• Facility Shutdown & Dismantlement, Rev. 2	H/S	CFC	NOTE 2	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Trenching and Excavating Inspection Forms	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Hoisting Log	H/S	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Site Preparation Package (50%)	ENG	CFC, Note 7, Note 9	A to M	20 wd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Site Preparation Package (100%)	ENG	CFC, Note 7, Note 9	A to M	20 wd	20 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Pre-Operational Environmental Control Plan	ENG	CFC, Note 9	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Functional Requirements Document	ENG	CFC	A TO M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA

FIGURE C.4-2 DELIVERABLES/SUBMITTALS REVIEW CYCLES

[Durations are in Working Days (wds) or Calendar Days (cds), as Noted]

Document Title	Document Family	Document Type*	Approval Before:	FDF/ DOE Review Draft	Contr. Finalize Draft	FDF/ DOE Review Final Draft & Accept	EPA Review Draft	FDF/DOE Review EPA Comments & Provide to Contr.	Contr. Develop RTC & Draft Final	FDF/ DOE Complete RTC & Submits with Draft Final to EPAs	EPA Review & Approve Draft Final	Contr. Finalize & Submit	FDF/ DOE Submit Final to EPAs
Design Criteria Package	ENG	CFC	A TO M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Conceptual Design Package	ENG	CFC	A TO M	20 wd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Preliminary Design Package	ENG	CFC	A TO M, Note 8	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Final Design Report	ENG	CFC	A TO M	20 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Design Closeout Report	ENG	CFC	A TO O	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Failure Modes and Effects Analysis	ENG	CFC	A TO M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Energy Conservation Report	ENG	CFC	A TO M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Environmental Investigations/Engineering Studies (as required)	ENG	CFC	A TO M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Point Source Air Emissions Data	ENG	CFC	A TO M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Environmental Investigation/Engineering Study Work Plan (as required)	ENG	CFC	A to M	20 wd	20 wd	4 wd	NA	NA	NA	NA	NA	NA	NA
Construction Safe Work Plan	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
List of Tools, Equipment, Vehicles	CONSTR	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Temporary Facilities	CONSTR	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA

FIGURE C.4-2 DELIVERABLES/SUBMITTALS REVIEW CYCLES

[Durations are in Working Days (wds) or Calendar Days (cds), as Noted]

Document Title	Document Family	Document Type*	Approval Before:	FDF/ DOE Review Draft	Contr. Finalize Draft	FDF/ DOE Review Final Draft & Accept	EPA Review Draft	FDF/DOE Review EPA Comments & Provide to Contr.	Contr. Develop RTC & Draft Final	FDF/ DOE Complete RTC & Submits with Draft Final to EPAs	EPA Review & Approve Draft Final	Contr. Finalize & Submit	FDF/ DOE Submit Final to EPAs
Preliminary Hazard Analysis (30%, 50%, & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Hazard Category Calculations (30%, 50%, & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Safety Assessment (30%, 50%, & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Hazard Analysis	H/S	CFC, Note 5	A to 0	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Safety Basis Document (30%, 50%, & Final)	H/S	CFC, Note 5	A to M	Note 5	Note 5	Note 5	NA	NA	NA	NA	NA	NA	NA
Labor Relations/Work Force Utilization Plan	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Schedule of Inspection and Tests	QUAL	CFC	A to M	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Health Physics Plan	H/S	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
CAT Plan	CONSTR	CFC	Note 4	10 wd	5 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Remedial Design Package	ENG	CFC	A to M	20 wd	20 wd	4 wd	60 cd	5 cd	20 cd	5 cd	30 cd	25 cd	5 cd
SOT Plan - Procedures	TRNG	CFC	Note 4	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Lesson Plans	TRNG	CFC	Note 4	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Welding Program	ENG	CFC	A to M	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA
Req Perform Pre-operational Assessment	ENG	INF	A to O	5 wd	1 wd	1 wd	NA	NA	NA	NA	NA	NA	NA
Waste Container Certifications	ENG	CFC	A to O	20 wd	10 wd	10 wd	NA	NA	NA	NA	NA	NA	NA

FIGURE C.4-2 DELIVERABLES/SUBMITTALS REVIEW CYCLES

[Durations are in Working Days (wds) or Calendar Days (cds), as Noted]

Document Title	Document Family	Document Type*	Approval Before:	FDF/ DOE Review Draft	Contr. Finalize Draft	FDF/ DOE Review Final Draft & Accept	EPA Review Draft	FDF/DOE Review EPA Comments & Provide to Contr.	Contr. Develop RTC & Draft Final	FDF/ DOE Complete RTC & Submits with Draft Final to EPAs	EPA Review & Approve Draft Final	Contr. Finalize & Submit	FDF/ DOE Submit Final to EPAs
Operating Procedures	ENG	CFC	A to O	20 wd	20 wd	20 wd	NA	NA	NA	NA	NA	NA	NA
Maintenance Plan	ENG	CFC	A to O	20 wd	20 wd	20 wd	NA	NA	NA	NA	NA	NA	NA
Facilities Shutdown Work Plan	ENG	CFC	Note 2	20 wd	20 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Facilities Dismantlement Work Plan	ENG	CFC	Note 2	20 wd	20 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
• Project Close-Out Checklist	ENG	CFC	Note 3	20 wd	20 wd	5 wd	NA	NA	NA	NA	NA	NA	NA
Invoice	PROC	INF	Payment	10 wd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fastener Quality Certificate	QUAL	CFC	NA	10 wd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Payroll Records (During Construction only)	PROC	INF	NA	10 wd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Personnel Termination Checklist	PROC	INF	Note 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Weekly Activity Reports	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Weekly Schedule Update	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Weekly Status Update	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Analytical Data Results	ENG	CFC	Note 6	5 wd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Meeting Minutes	ENG	CFC	NA	1 wd	NA	NA	NA	NA	NA	NA	NA	NA	NA
Operator Logs and Records	ENG	INF	Note 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Environmental Monitoring Data	ENG	INF	Note 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

FIGURE C.4-2 DELIVERABLES/SUBMITTALS REVIEW CYCLES

[Durations are in Working Days (wds) or Calendar Days (cds), as Noted]

Document Title	Document Family	Document Type*	Approval Before:	FDF/ DOE Review Draft	Contr. Finalize Draft	FDF/ DOE Review Final Draft & Accept	EPA Review Draft	FDF/DOE Review EPA Comments & Provide to Contr.	Contr. Develop RTC & Draft Final	FDF/ DOE Complete RTC & Submits with Draft Final to EPAs	EPA Review & Approve Draft Final	Contr. Finalize & Submit	FDF/ DOE Submit Final to EPAs
Urinalysis Sampling Form	H/S	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bioassay Form	H/S	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OSHA 24-Hour Field Experience Form	H/S	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silo 3 Inspection Forms	ENG	INF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTE 1: These documents are to be approved/accepted prior to the submittal by the Contractor of the draft Preliminary Design Package.
NOTE 2: These documents are to be approved/accepted prior to the start of facility shutdown and dismantlement activities.
NOTE 3: This document is to be accepted prior to being able to close out the project and demobilize.
NOTE 4: This document is to be approved/accepted prior to the start of pre-operational testing.
NOTE 5: The safety basis documentation will undergo review approval in parallel to the Preliminary Design Package, per Section J.3.2.
NOTE 6: Prior to shipping waste to the disposal facility.
NOTE 7: These documents will require a 50% submittal and 100% submittal.
NOTE 8: FDF/DOE review final draft and acceptance of the Preliminary Design Package will not take place until EPA approves the Operations Work Plan.
NOTE 9: DOE will review and/or approve these documents concurrent with FDF

FDF - FDF
DOE - U.S. Department of Energy
EPA - U.S. Environmental Protection Agency & Ohio Environmental Protection Agency
RTC - Response to Comments Document
NA - Not Applicable

A to O - Authorization to Operate
- INF - Information submittal for compliance review.
- CFC - Certified for construction, reviewed for conformance to requirements.
- NTP - Notice Proceed

A to M - Authorization to Mobilize/Construct